

***The Interoperability
Senior Review Panel
and
Joint Forces Command***

Interoperability Senior Review Panel

Charter:

- Single Chair (rotated on periodic basis)
- Members: USD (AT&L); USD (I); DoD CIO; DOT&E; PA&E; JS (J2,J6,J8); JFCOM
- Mission and organizational responsibilities
- Forcing functions for enforcement of interoperability policy.
- Process for synthesizing and coordinating interoperability issues/remedies
- Criteria for placing programs on the Interoperability Watch List

ISR^(IWL)P Responsibilities:

- ISR^(IWL)P operating procedures
- Coordinate DoD IT and NSS interoperability and supportability policy and processes.
- Coordinate interoperability reviews and assessments that identify IT and NSS interoperability deficiencies and corrective actions.
- Review and comment on interoperability deficiencies and proposed DOTMLPF solution sets identified by the U.S. Joint Forces Command.

Addressing Joint Force Integration

- **Existing JI&I:**

- Unified Command Plan-02 assigned USJFCOM as the Joint Force Integrator and Chief Advocate for Jointness, Interoperability and Integration
- Department of Defense Directive 4630.5 and Department of Defense Instruction 4630.8 assigned USJFCOM responsibility to provide operationally prioritized and programmatically synchronized materiel and non-materiel recommendations for resolving Combatant Commander Warfighting Shortfalls
- Chairman, Joint Chiefs of Staff assigned USJFCOM Chief Advocate for assessing all Department of Defense Requirement Documents for Interoperability and Integration
- Provide Rapid fielding of mission capable solutions via transition funds - bridge Service, Agency Program Objective Memorandum cycles

- **New JBMC2/JI&I:**

- Secretary of Defense directed expanded responsibilities for USJFCOM to improve the Department of Defense ability to field Joint Battle Management Command and Control capabilities.

Jl&I Core Business

Achieving Future Interoperability and Integration

- Continuously work with Combatant Commanders, Services, and Agencies to identify valid joint interoperability requirements that are measurable and testable. Train and mentor the process.
- Enforce interoperability through review and validation of Department of Defense requirements documents for information exchange requirements and interoperability key performance parameters consistent with approved Joint Requirements Oversight Council Joint Operational Concepts and Integrated Architectures.

JI&I Core Business

Addressing Legacy Interoperability Integration

- Identify, assess, and prioritized Combatant Commanders Interoperability, Integration and capability shortfalls
- Develop Comprehensive Doctrinal, Organizational, Training, Materiel, Leadership, Personnel and Facilities (DOTMLPF) mission capability strategies
- Provide Rapid fielding of mission capable solutions via USJFCOM Joint Interoperability and Integration transition funds - bridge Service, Agency Program Objective Memorandum cycles

Management Initiative Decision 912

- **Expands the USJFCOM responsibility for:**
 - Strengthening Departments fielding of Joint Battle Management Command and Control (JBMC2) capabilities
 - Leading Combatant Commanders in the development of joint doctrine, concepts, mission/capability area requirements for Joint BMC2
 - Coordination of JBMC2 capabilities for joint integration and interoperability with the Joint Requirements Oversight Council (JROC)
 - Direct oversight and directive authorities for selected DoD programs and initiatives

J1&I /JBMC2 OIF/OEF Priority Issues

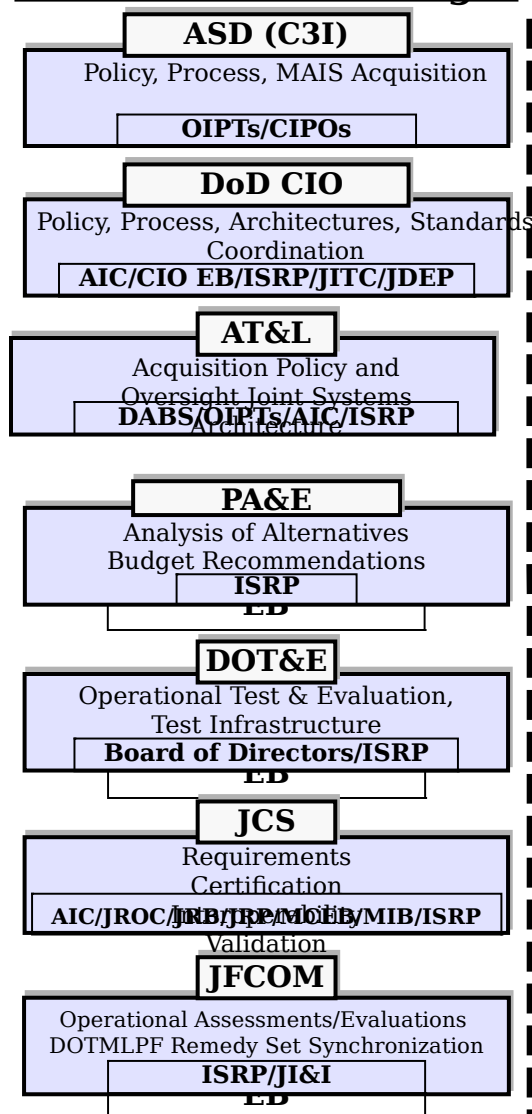
- Fratricide Prevention
- Combat Identification
- Joint Blue Force Situational Awareness
- Joint Close Air Support
- Effects Based Operations
- Networked Command and Control
- Deployment Planning and Executions
- Coalition Information Sharing

JI&I/JBMC2 Engagements

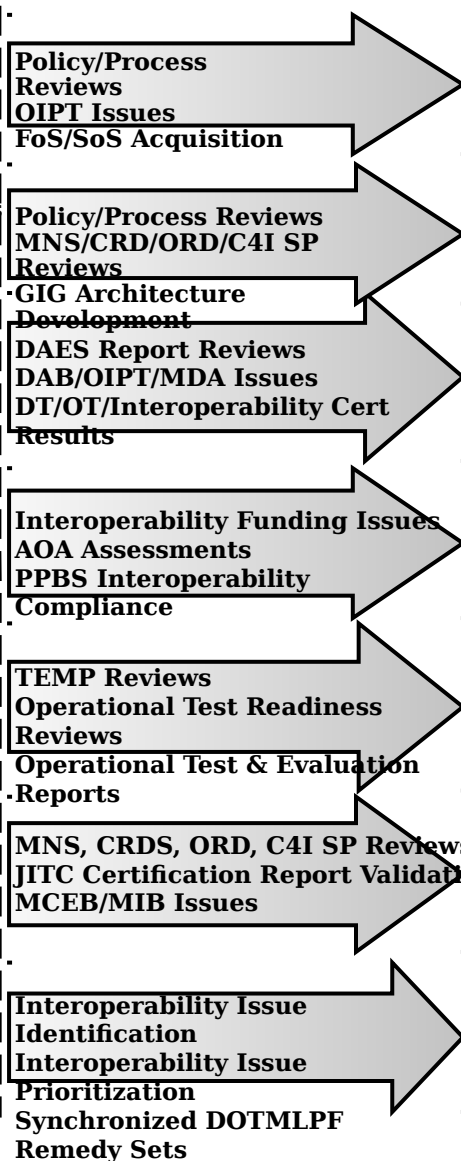
- Current Military Operations
 - Joint En-route Mission Planning and Rehearsal System- Near Term (JEMPERS NT)
 - Machine Foreign Language Translator (MFLT)
- Near-Future Operations
 - Rapid Attack Information Dissemination/Execution Relay (RAIDER)
 - Distributed Common Ground System Integration
- Oversight & Directive Authority
 - Deployable Joint Command and Control
 - Joint Command and Control
- Capability Shaping
 - Integrated Interoperability Plan
 - JBMC2 Roadmap

Interoperability Assessments

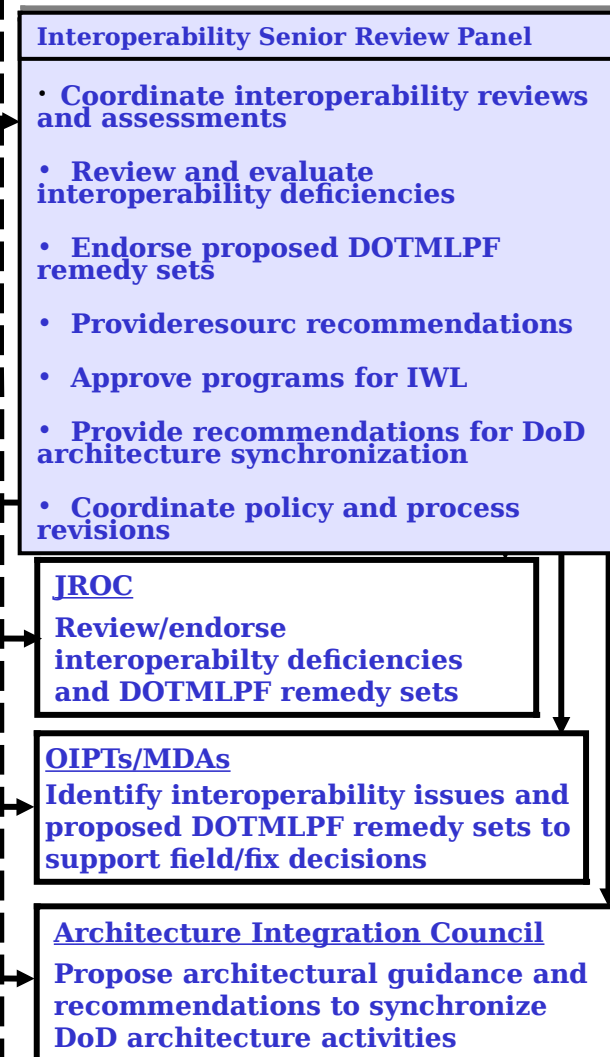
Direction and Oversight



Issue Identification



Adjudication and Resolution



ISRP Advantages

- Unique Forum co-chaired by senior representatives from USD(AT&L), USD(PA&E), ASD(NII), DoD CIO, USD(I); Director of Operational Test & Evaluation (DOT&E), CJCS, and USJFCOM, to perform the following functions:
 - Coordinates DoD IT and NSS interoperability and supportability policy and processes
 - Coordinates interoperability reviews and assessments that identify IT and NSS interoperability deficiencies and corrective actions
 - Reviews and comments on interoperability deficiencies and proposed DOTMLPF solution sets identified by USJFCOM
 - Reviews critical systems and programs with significant interoperability deficiencies and approves appropriate candidates for the Interoperability Watch List (IWL)

Backup

Transformational Leaders in JBMC2

- Collaborative Information Environments (CIE)
- Net Centric Enterprise Services (NCES)
- Global Information Grid (GIG)
- Standing Joint Force Headquarters (SJFHQ)
- Deployable Joint Command and Control (DJC2)
- Joint Command & Control (JC2)
- Multi-National Information Sharing
- Joint Interagency
- Joint National Training Capability (JNTC)

Integrated Interoperability Plan

- **Background**

- UCP 02 and MID 912 JFCOM expanded I&I role
- TPG – directed JFCOM draft IIP focusing on 6 areas
 - COP for Joint Forces
 - SOP and Processes for DJC2 & SJFHQ
 - Enhanced ISR
 - Sensor to Shooter linkages
 - Reachback Capabilities
 - Adaptive Mission Planning
- Fully coordinated and submitted to USD(P) for approval 3 Oct 03

- **Discussion**

- IIP themes and recommended actions reflect OEF/OIF lessons and COCOM desired operational capabilities that support jointness and transformation
- Provides FY 06-11 investment prioritization scheme and systemic recommendations addressing Authorities, Resources, and Policies
- Proposes USD(P) investigate a capability development governance process

- **Products**

- Major themes in SPG and JPG endorsing proposed POM priorities
- Key provisions reflected in Joint Transformation, JBMC2 Roadmaps

Joint Enroute Mission Planning & Rehearsal System

Near Term (JEMPRS-NT)

- **Issue**

- Combatant Commands have shortfalls in operational needs in deployments where situational awareness, collaboration, planning and execution are hindered during transit of large AORs and while conducting operations in remote locations.

- **Discussion**

- JFCOM has developed a mobile mission planning and rehearsal system providing capability to JTF en route airborne or forward locations. Capability includes basic voice/data communications supporting collaboration, planning and execution of operations while en route or from austere environments.
- Capability is independent of comm path (INMARSAT, Ku, etc.).

- **Products**

- JEMPRS: Voice, Video, Data Application Sharing Whiteboard, Text Chat, Digital Dashboard E-mail, Web Service Network Access to Other Systems
- JEMPRS delivered to: JTF Horn of Africa; Ambassador Bremer-ORHA; JFCOM HQ; PACOM; COMPACFLT; MARFORPAC
- Scheduled Deliveries: NORTHCOM (Feb 04); SOUTHCOM; (Mar 04); EUCOM (May 04); SOCEUR (May 04); SETAF (Apr/May 04)

Machine Foreign Language Translation System (MFLTS)

- **Issue**

- Combatant Command experiencing immediate need for foreign language translation not supportable with current inventory of linguists.

- **Discussion**

- JFCOM leveraging proven technology from PACOM/Army Language And Speech Exploitation Resources Advanced Concept Demonstration (LASER ACTD) to address immediate needs of the warfighter
- Leading a Machine Foreign Language Translation System-Joint Transitional Management Team (MFLTS-JTMT) and coordinating work with LASER ACTD Team , and Service System Engineering Centers
- Implementing language translation requirements into Army led SEQUOYAH Foreign Language Translation System (S-FLTS) to meet Joint Requirements

- **Products**

- Capability in FY 04 to CENTCOM, SOCOM, PACOM, SOUTHCOM, EUCOM, FORSCOM, CJTF 180, CJTF 7, HOA, IMEF, III MEF, 25th ID, JNTC, JRTC, National Intel Center-Sarajevo, 66th MI GRP, 221st MP, NAVEUR, MARFOREUR
- Capabilities include: two-way text and web-chat capability; one-way speech and phrase translation; visual survival translation guides

Digital Precision Strike Suite (DPSS)

- **Issue**

- Combatant Commands require capability for a mobile solution for rapidly producing targeting quality coordinates.

- **Discussion**

- DPSS provides a mobile solution for rapidly producing targeting quality coordinates with using a small footprint laptop, easy to use and which provides an excellent solution for rapidly producing target quality coordinates by Special Operations Forces in the field or remote locations.
- JFCOM has partnered with NAVAIR Weapons Development Command to refine this existing capability and formalize the DPSS training of all Joint Force forward air controllers.

- **Products**

- Training and fielding to Special Forces and USMC immediate FY04 deplorer (in progress) with further fielding planned in FY05/06.

Rapid Attack Information Dissemination/Execution Relia ***(RAIDER)***

- **Issue**

- Combatant Commands require capability for machine-to-machine transfer of targeting data/engagement orders in the Joint Fires arena in order to shorten the kill chain and eliminate man-in-the-loop errors associated with manual transmission of targeting assignments.

- **Discussion**

- RAIDER supports machine-to-machine transfer of targeting data/engagement orders by providing integrated leading edge COTS/GOTS technologies to support rapid precision targeting, re-targeting, Close Air Support (CAS) and Battle Damage Assessment (BDA).
- Three variants are currently underdevelopment:
 - RAIDER-Ground is packaged in a HUMMV
 - RAIDER-AIR is planned for airborne platforms
 - RAIDER-Lite is a scalable version for flexible unit adaptation

- **Products**

- Currently fielding to PACOM (USFK) as experimental prototype and leave behind following FOAL EAGLE-04 and to EUCOM in the European Plans and Operations Center(EPOC).
- Follow-on fielding in FY05/06 is being planned.

Distributed Common Ground System (DCGS) Integration

- **Issue**

- Combatant Commands identified a shortfall with fielded systems not having the requisite documentation and concepts of operations required to effectively and efficiently execute across the battlespace for information sharing and operations.

- **Discussion**

- DoD DCGS migrates Services' intelligence, surveillance and reconnaissance (ISR) processing and exploitation capabilities into a net-centric collaborative enterprise.
- This synergy of all Service DCGS nodes – the ability to collaborate on a broad range of intelligence problems creates an exploitation capability greater than the sum of the individual parts.
- USJFCOM is developing a Joint Enabling Operational Concept to guide and enable standardized, flexible, responsive, multi-Service, interoperable, net-centric operations within the DCGS family of systems.

- **Products**

- A Joint Enabling Operational Concept that will provide theater commanders the strategy and vision to enable greater speed of information delivery and improved accuracy by multi-source collaboration and information sharing.

Joint Translator/Forwarder (JXF)

- **Issue**

- Combatant Command require an air to ground and command and control capability.

- **Discussion**

- Joint translator forwarder capitalizes on the multi-year JTF WARNET development effort.
- USJFCOM is partnered with the JTRS-JPO to provide a interoperable gateway link for current C2 systems in meeting data exchange requirements.
- Initial near-term capability is planned for FY04.

- **Products**

- A joint translator forwarder capability supporting air to ground command and control. Fielding and implementation to Combatant Command in FY-05/06.

Deployable Joint C2 (DJC2)

- **Issue**

- No standing or standardized deployable C2 capability exists for Regional Combatant Commanders (RCCs)
- Joint Force Commanders (JFCs) need a responsive, scaleable and deployable joint C2 capability

- **Discussion**

- JFCOM oversight of DJC2 per MID 912
- JFCOM co-lead for DJC2 ORD, JROC approved DJC2 ORD Sep 03
- DJC2 System based on “Core” 60-seat configuration
 - Multiple Cores can be combined for large-scale JTF operations
 - Nested within each Core is capability for smaller-sized Early Entry and En Route operations
- Increment I C2 capability based on GCCS-J (4.X) and CIE Tools

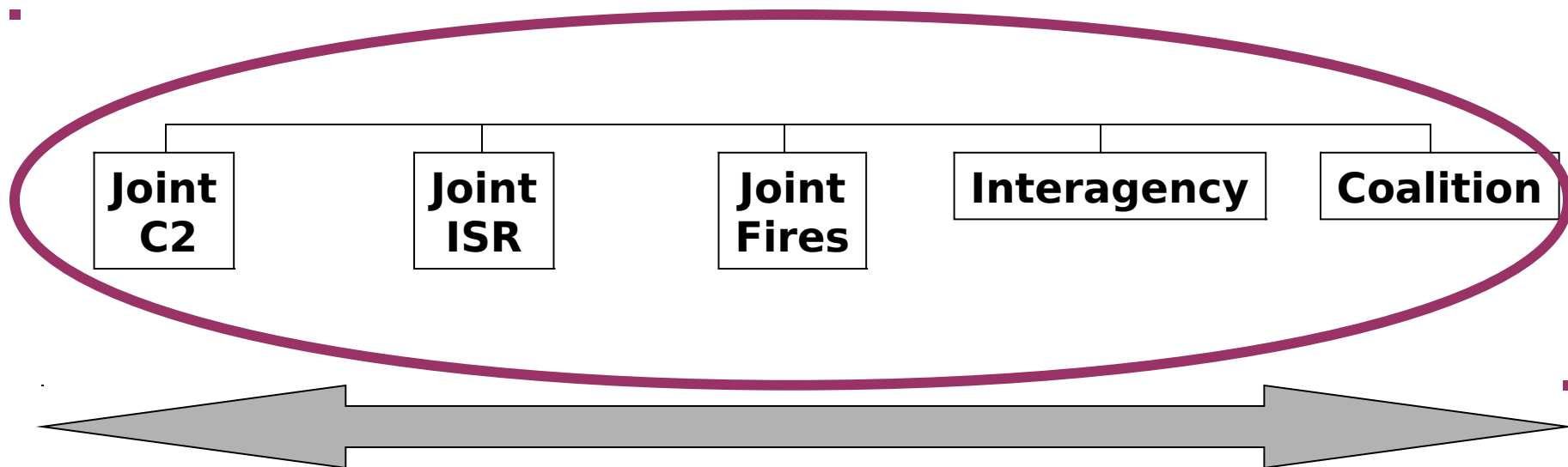
- **Products**

- DJC2 Capabilities to: JFCOM FY04, PACOM & CENTCOM FY05; SOUTHCOM & EUCOM FY06
- Two DJC2 Cores delivered to each RCC for Increment I by FY07

JOINT BATTLE MANAGEMENT COMMAND AND CONTROL DEFINITION

- JBMC2 consists of the processes, architectures, systems, standards, and command and control operational concepts employed by the Joint Force Commander.
 - The Joint Force Commander executes joint operations by employing the entire array of JBMC2 capabilities during the planning, coordinating, directing, controlling, and assessing of joint force operations from interface with the strategic level through the tactical level.
- JBMC2 aims at providing an integrated, interoperable, and networked joint force that will:
 - Insure common shared situational awareness
 - Allow fused, precise and actionable intelligence
 - Support coherent distributed and dispersed operations, including forced entry into anti-access or area-denial environments
 - Ensure decision superiority enabling more agile, more lethal, and survivable joint operations

Joint BMC2 Context



Joint Battle Management Command and Control spans the continuum of Joint C2, Joint Intelligence Surveillance and Reconnaissance (ISR), Joint Fires, Interagency, and Coalition

Joint Battle Management Command and Control Roadmap

- **Issue**

- Management Initiative Decision (MID) 912 assigns USJFCOM responsibility to develop JBMC2 capabilities.

- **Discussion**

- Central to the transformation of U.S. Forces are development and fielding of integrated Joint Battle Management Command and Control (JBMC2) capabilities to enable U.S. forces to collaboratively plan and rapidly share an accurate picture of the battlespace.
- JBMC2 Roadmap development is consistent with the new 5000 Series of regulations that specifically address system of systems development , as well as the new 3170 Joint Capabilities Integration Development System (JCIDS) instruction, and with joint architectural constructs.
- A roadmap is required to provide an overview of JBMC2 capability development efforts in the Department of Defense and is intended to assist policymakers and decision makers in aligning and integrating Service and Combatant Command doctrine, concept development and acquisition efforts.

- **Products**

- A JBMC2 Roadmap which provides a coherent and executable plan for fielding integrated JBMC2 capabilities to U.S. Forces.